DEIMOS
SSC Presentation: November 22, 1996
Unmet Milestones, Milestones for the Present Quarter, and Concerns

Unmet milestones from previous quarters:

- The designs for the slitmask insertion and grating slide mechanisms are still not complete.
- Fabrication of the CCD test dewar still did not start.
- Progress on the error budget was not achieved.

Unmet milestones from this past quarter:

- Camera Element 2 was not completed owing to the CaF_2 fracture; delayed until next quarter.
- The alignment plan was not completed; in progress.
- A design for the grating mount was finished and tested, but the clamping design and slide mechanism are not yet complete.
- A response to the Software PDR has yet to be prepared.
- There is still no detailed software budget, though a list of priorities and a schedule were prepared.
- The CCD controller boards from Leach were not received.
- The in-house Lick CCD thinning effort was not completed.
- Simulated mosaic images and headers were not constructed pending receipt of memory for the DecAlpha.

Progress on major milestones for the present quarter:

- Good progress is being made on the DEIMOS structure at L&F Industries, and it should arrive at Lick by the end of the quarter as planned.
- The design of the slitmask handling system is proceeding on schedule.
- The grating slide design will probably extend into the next quarter. The planned mini-review of the slitmask and grating systems which was planned for mid-December is now scheduled for early January.
- The tent mirror has been ordered, and orders for two gratings should be placed as planned.
- The conceptual design of the dewar, focus mechanism, and x-motion flexure compensation mechanism is well underway, with completion expected by the end of the quarter.
- The alignment plan is progressing and is expected to finish by the end of the quarter.
- Elements 7 and 8 will likely be completed, but work on Element 2 will be delayed until next quarter.
- We expect (finally!) to complete the CCD test dewar.
- It is not known whether the Leach II controller boards will arrive in December as hoped. The choice of CCD controller will likely be delayed until early next quarter.
- The TV guider optical design is nearly final, and a Photometrics TV was ordered.
- DEIMOS proposals for source code management, directories, and makefiles were presented to CARA and were well received.
- We expect to begin testing full-sized simulated DEIMOS images.
- Work is proceeding well on GUI prototyping and testing.

Concerns:

- Breakage of first CaF_2 element not thoroughly understood.
- Off-center aspheres on Elements 7 and 8; possible optical effect.
- CCD controller availability still unknown (Leach-2); possible delay to evaluate Stubbs controller; possible long CCD readout times.
- Detector choice is nearing — however, Lick has made good progress, and both Lincoln and SITE prices seem reasonable ($50-60K per device).